

Caihong Zhang

List of Publications by Year in descending order

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41
papers

1,457
citations

393982

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docs citations

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times ranked

1270
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous Terahertz Reflection and Scattering by Flexible and Conformal Coding Metamaterials. <i>Advanced Optical Materials</i> , 2015, 3, 1374-1380.	3.6	175
2	Liquid crystal programmable metasurface for terahertz beam steering. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	169
3	Thermally Dependent Dynamic Meta-Holography Using a Vanadium Dioxide Integrated Metasurface. <i>Advanced Optical Materials</i> , 2019, 7, 1900175.	3.6	138
4	Active Control of Terahertz Waves Using Vanadium-Dioxide-Embedded Metamaterials. <i>Physical Review Applied</i> , 2019, 11, .	1.5	99
5	Broadband and high modulation-depth THz modulator using low bias controlled VO ₂ -integrated metasurface. <i>Optics Express</i> , 2017, 25, 17322.	1.7	96
6	Ultrafast spin current generated from an antiferromagnet. <i>Nature Physics</i> , 2021, 17, 388-394.	6.5	81
7	Tuning of superconducting niobium nitride terahertz metamaterials. <i>Optics Express</i> , 2011, 19, 12021.	1.7	62
8	Temperature-Controlled Asymmetric Transmission of Electromagnetic Waves. <i>Scientific Reports</i> , 2019, 9, 4097.	1.6	60
9	Temperature-Controlled Optical Activity and Negative Refractive Index. <i>Advanced Functional Materials</i> , 2021, 31, 2010249.	7.8	58
10	Electrical dynamic modulation of THz radiation based on superconducting metamaterials. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	53
11	Dual-color terahertz spatial light modulator for single-pixel imaging. <i>Light: Science and Applications</i> , 2022, 11, .	7.7	53
12	Switchable Chiral Mirrors. <i>Advanced Optical Materials</i> , 2020, 8, 2000247.	3.6	45
13	Spintronic terahertz emitter. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	39
14	Programmable Terahertz Metamaterials with Non-Volatile Memory. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	37
15	Tunable electromagnetically induced transparency from a superconducting terahertz metamaterial. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	36
16	High-Performance Terahertz Sensing at Exceptional Points in a Bilayer Structure. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800070.	1.3	28
17	Nonlinear response of superconducting NbN thin film and NbN metamaterial induced by intense terahertz pulses. <i>New Journal of Physics</i> , 2013, 15, 055017.	1.2	27
18	Terahertz Spectroscopy of Dilute Gases Using $\langle \text{Bi} \rangle$	1.5	26

#	ARTICLE	IF	CITATIONS
19	Temperature-controlled terahertz polarization conversion bandwidth. Optics Express, 2021, 29, 21738.	1.7	25
20	Selective coherent perfect absorption of subradiant mode in ultrathin bi-layer metamaterials via antisymmetric excitation. Applied Physics Letters, 2017, 110, 181111.	1.5	18
21	Experimental study on the transition of plasmonic resonance modes in double-ring dimers by conductive junctions in the terahertz regime. Optics Express, 2016, 24, 27415.	1.7	17
22	Free-standing Single-Layer Metasurface for Efficient and Broadband Tailoring of Terahertz Wavefront. Advanced Optical Materials, 2022, 10, .	3.6	13
23	Nonlinear terahertz superconducting plasmonics. Applied Physics Letters, 2014, 105, 162602.	1.5	12
24	Metamaterials: Anomalous Terahertz Reflection and Scattering by Flexible and Conformal Coding Metamaterials (Advanced Optical Materials 10/2015). Advanced Optical Materials, 2015, 3, 1373-1373.	3.6	11
25	Spectral imaging of flexible terahertz coding metasurface. Applied Physics Letters, 2021, 118, .	1.5	11
26	Electrically tunable electromagnetically induced transparency in superconducting terahertz metamaterials. Applied Physics Letters, 2021, 119, 052602.	1.5	11
27	Flexible bilayer terahertz metasurface for the manipulation of orbital angular momentum states. Optics Express, 2021, 29, 33445.	1.7	8
28	Anisotropic coding metasurfaces and their active manipulation based on vanadium dioxide for multifunctional applications in the terahertz region. Optics Express, 2022, 30, 28158.	1.7	8
29	Extraction of material parameters of a bi-layer structure using Terahertz time-domain spectroscopy. Science China Information Sciences, 2014, 57, 1-10.	2.7	7
30	Tailoring electromagnetically induced transparency effect of terahertz metamaterials on ultrathin substrate. Science China Information Sciences, 2016, 59, 1.	2.7	7
31	Reconfigurable terahertz rainbow deflector. Applied Physics Letters, 2021, 118, .	1.5	7
32	CD38 Multi-Functionality in Oral Squamous Cell Carcinoma: Prognostic Implications, Immune Balance, and Immune Checkpoint. Frontiers in Oncology, 2021, 11, 687430.	1.3	6
33	Mode transition in cooperative metamaterials at terahertz frequencies. Journal of Applied Physics, 2017, 121, 193101.	1.1	5
34	Real-time near-field terahertz spectroscopy imaging. , 2021, , .		5
35	Vertical $\text{Nb} \langle \text{O} \rangle \text{Ti} \langle \text{Nb} \rangle \text{Josephson Junctions Controlled by In-Plane Hot-Electron Injection. Physical Review Applied. 2020. 14. , .}$		3
36	Continuous-wave Terahertz Imaging System Based on Far-infrared Laser Source. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
37	Bi-layer Metamaterial based Broadband Linear Polarization Converter under Two Coherent Beam Illumination. , 2018, , .		0
38	Hybrid Coupling Model for Terahertz Metamaterials: Design and Applications. , 2019, , .		0
39	Fano Resonance in Terahertz Superconducting Tl ₂ Ba ₂ CaCu ₂ O ₈ Metamaterials. , 2019, , .		0
40	Functional Heterogeneity of Reelin in the Oral Squamous Cell Carcinoma Microenvironment. Frontiers in Oncology, 2021, 11, 692390.	1.3	0
41	Terahertz wave modulation utilizing superconductor-metal metamaterials. , 2021, , .		0